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Publications

2026

Prosiding seminar internasional

Fatigue life estimation of Bina Marga standard steel bridge structures through finite element analysis

MUTHIAH PUTRILAN SYAMNAH HARAHAP , DERRY WILYANDA NASUTION , CUT ATIKA PUTRI , NURSYAMSI , DANIEL PATRICK SITOANG

2026

Jurnal internasional bereputasi

Effect of Storage Time on Asphalt Modified by KKK60 Prevulcanized Latex

MUTHIAH PUTRILAN SYAMNAH HARAHAP , DERRY WILYANDA NASUTION , ADINA SARI LUBIS , M. Fadil Natoras Nasution

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Effect of Storage Time on Asphalt Modified by KKK60 Prevulcanized Latex Latex

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2025

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Fatigue life estimation of Bina Marga standard steel bridge structures through finite element analysis

DERRY WILYANDA NASUTION , MUTHIAH PUTRILAN SYAMNAH HARAHAP

2024

Jurnal nasional

The Evaluation of the Use PET and HDPE Plastic Waste as Coarse Aggregate of Lightweight Concrete

NURSYAMSI , MUTHIAH PUTRILAN SYAMNAH HARAHAP

2024

Prosiding seminar internasional

Static Convergence Behaviour of Discrete Kirchhoff-Mindlin Triangular Element on Rectangular Functionally Graded Material Plates

IMAM JAUHARI MAKUNUN , MUTHIAH PUTRILAN SYAMNAH HARAHAP

2023

Jurnal nasional

Pengaruh Penambahan Abu Tandan Sawit dan 12% Serbuk Cangkang Telur Terhadap Stabilisasi Tanah Lempung Ditinjau Dari Nilai CBR dan UCT

MUTHIAH PUTRILAN SYAMNAH HARAHAP , DERRY WILYANDA NASUTION , IKA PUJI HASTUTY

2022

Jurnal internasional bereputasi

Kajian Struktur Istana Maimun dalam merspon Gaya Gempa

NURSYAMSI , MUTHIAH PUTRILAN SYAMNAH HARAHAP , ING JOHANNES TARIGAN

2022

The Traditional House in North Sumatera Against the Earthquake: A Case Study of Karo and Toba

MUTHIAH PUTRILAN SYAMNAH HARAHAHAP , ING JOHANNES TARIGAN , NURSYAMSI

2022

Jurnal internasional

Structural Analysis of Maimun Palace Against Earthquake

ING JOHANNES TARIGAN , MUTHIAH PUTRILAN SYAMNAH HARAHAHAP , NURSYAMSI

2021

Prosiding seminar internasional

Buckling analysis of square Functionally Graded Material (FGM) plate using Discrete Kirchhoff Mindlin Triangular (DKMT) element

MUTHIAH PUTRILAN SYAMNAH HARAHAHAP

2020

Prosiding seminar internasional

Static analysis of skew Functionally Graded Material (FGM) plate using triangular element

MUTHIAH PUTRILAN SYAMNAH HARAHAHAP

Researches

2024

Penelitian Dana Lokal Perguruan Tinggi

Studi Umur Layan Struktur Jembatan Standar Bina Marga Terhadap Kriteria Fatik

MUTHIAH PUTRILAN SYAMNAH HARAHAHAP , NURSYAMSI , DERRY WILYANDA NASUTION , TIUR AGNES M SIANIPAR , DANIEL PATRICK SITOANG

2023

Penelitian Dana Lokal Perguruan Tinggi

EFEKTIVITAS IMPLEMENTASI MANAJEMEN PROYEK PADA PROYEK KONSTRUKSI (STUDI KASUS: PROYEK PEMBANGKIT LISTRIK TENAGA BIOMASSA 9,9 MEGAWATT DELI SERDANG)

GINA CYNTHIA RAPHITA HASIBUAN , GEA GEBY AURORA SYAFRIDON , MUTHIAH PUTRILAN SYAMNAH HARAHAHAP

2023

Penelitian Dana Lokal Perguruan Tinggi

LIGHT TRANSMISSION CONCRETE PADA GREEN BUILDING DENGAN PLASTIC OPTIC FIBER SEBAGAI MEDIA TRANSMISI CAHAYA

GEA GEBY AURORA SYAFRIDON , MUTHIAH PUTRILAN SYAMNAH HARAHAHAP , NURSYAMSI , IKA PUJI HASTUTY

Community Services

2023

Pemasangan Paving Block di Halaman Depan Masjid UMMI MA'Ad TAHFIDZ Yatim Dhuafa Kitabina Kecamatan Sibolangit Kabupaten Deli Serdang

NISMAH PANJAITAN , KEMALA SARI LUBIS , ANDY PUTRA RAMBE , MUTHIAH PUTRILAN SYAMNAH HARAHAHAP , DERRY WILYANDA NASUTION

2023

STUDI POTENSI DEBIT, HEAD, DAN DAYA LISTRIK RENCANA PEMBANGUNAN PLTMikro SUNGAI SEMBAHE KECAMATAN SIBOLANGIT KABUPATEN DELI SERDANG

M RIDWAN ANAS , IVAN INDRAWAN , MUTHIAH PUTRILAN SYAMNAH HARAHAHAP , MUHAMMAD ASWIN , DERRY WILYANDA NASUTION

2023

PEMASANGAN PAVING BLOCK DI HALAMAN DEPAN MASJID UMMI MA'HAD TAHFIDZ YATIM DHUAFA KITABINA KECAMATAN SIBOLANGIT KABUPATEN DELI SERDANG

NISMAH PANJAITAN , KEMALA SARI LUBIS , ANDY PUTRA RAMBE , MUTHIAH PUTRILAN SYAMNAH HARAHAHAP , DERRY
WILYANDA NASUTION

Intellectual Property Rights

2025

Paten nasional

GORONG-GORONG BETON PRACETAK PADA JALAN KELAS III

MUTHIAH PUTRILAN SYAMNAH HARAHAHAP , ING JOHANNES TARIGAN , NURSYAMSI , SHEILA HANI , Muhammad Farhan